STN SEARCH TRANSCRIPT 10/632,148

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 NEWS  6  DEC 01  LISA now available on STN
 NEWS  7  DEC 09  12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30  EPFULL: New patent full text database to be available on STN
 NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03  No connect-hour charges in EPFULL during January and
                  February 2005
 NEWS  17 JAN 11  CA/CAPLUS - Expanded patent coverage to include Russia
                  (Federal Institute of Industrial Property)

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 11:42:44 ON 18 JAN 2005

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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY     SESSION
FULL ESTIMATED COST                                       0.42        0.42

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STRUCTURE FILE UPDATES:   16 JAN 2005  HIGHEST RN 814917-78-7
DICTIONARY FILE UPDATES:  16 JAN 2005  HIGHEST RN 814917-78-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s dimethyl carbonate/cn
L1            1 DIMETHYL CARBONATE/CN

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY     SESSION
FULL ESTIMATED COST                                       5.03        5.45

FILE 'CAPLUS' ENTERED AT 11:43:44 ON 18 JAN 2005
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FILE COVERS 1907 - 18 Jan 2005  VOL 142 ISS 4
FILE LAST UPDATED: 17 Jan 2005  (20050117/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l1
L2          4886 L1

=> s l2 and methyla?
         231095 METHYLA?
L3           289 L2 AND METHYLA?
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=> s l3 and (?imidazo?, piperazine, morpholine, heterocycl?, azoles, azepin?)
        155409 ?IMIDAZO?
         25605 PIPERAZINE
          3624 PIPERAZINES
         26429 PIPERAZINE
                 (PIPERAZINE OR PIPERAZINES)
         31092 MORPHOLINE
          1160 MORPHOLINES
         31546 MORPHOLINE
                 (MORPHOLINE OR MORPHOLINES)
        138509 HETEROCYCL?
          2677 AZOLES
         10102 AZEPIN?
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                 (?IMIDAZO?(W)PIPERAZINE(W)MORPHOLINE(W)HETEROCYCL?(W)AZOLES(W)
                 AZEPIN?)
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=> s l3 and (?imidazo?, piperazine, morpholine, heterocycl?, azoles, azepin?)
        155409 ?IMIDAZO?
         25605 PIPERAZINE
          3624 PIPERAZINES
         26429 PIPERAZINE
                 (PIPERAZINE OR PIPERAZINES)
         31092 MORPHOLINE
          1160 MORPHOLINES
         31546 MORPHOLINE
                 (MORPHOLINE OR MORPHOLINES)
        138509 HETEROCYCL?
          2677 AZOLES
         10102 AZEPIN?
             0 ?IMIDAZO?, PIPERAZINE, MORPHOLINE, HETEROCYCL?, AZOLES, AZEPIN?
                 (?IMIDAZO?(W)PIPERAZINE(W)MORPHOLINE(W)HETEROCYCL?(W)AZOLES(W)
                 AZEPIN?)
L5           0 L3 AND (?IMIDAZO?, PIPERAZINE, MORPHOLINE, HETEROCYCL?, AZOLES,
                 AZEPIN?)

=>

=> s l3 and nitrogen?
        580419 NITROGEN?
L6          12 L3 AND NITROGEN?

=> d 1-12 ibib abs

L6   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        2004:510185  CAPLUS
DOCUMENT NUMBER:         141:54061
TITLE:                   Process and catalysts for the synthesis of
                         mono-N-substituted functionalized anilines from
                         anilines and carbonate esters
INVENTOR(S):             Selva, Maurizio; Tundo, Pietro
PATENT ASSIGNEE(S):      Consorzio Interuniversitario Nazionale la Chimica per
                         L'ambiente, Italy
SOURCE:                  Eur. Pat. Appl., 13 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    -------------------      --------
     EP 1431274           A1    20040623    EP 2003-29005            20031216
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2004127747        A1    20040701    US 2003-734208           20031215
PRIORITY APPLN. INFO.:                      IT 2002-PD325        A   20021218
OTHER SOURCE(S):         CASREACT 141:54061; MARPAT 141:54061
AB   A process for direct and selective synthesis of mono-N-substituted
     functionalized anilines [e.g., 4-(methylamino)phenol] comprises
     the alkylation of anilines (e.g., 4-hydroxyaniline) with organic carbonates
     in the presence of faujasite-type zeolite catalysts that are chemical
     exchanged with alkali metals (e.g., sodium).
REFERENCE COUNT:         7     THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6   ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        2004:252226  CAPLUS
DOCUMENT NUMBER:         140:270733
TITLE:                   Preparation of N-methyl and N-benzylindoles via the
                         DABCO catalyzed N-alkylation of indoles with dimethyl
                         or dibenzyl carbonate
INVENTOR(S):             Dell, Steven; Lozanov, Mario Emilov; Shieh, Wen-Chung
PATENT ASSIGNEE(S):      USA
SOURCE:                  U.S. Pat. Appl. Publ., 10 pp.
                         CODEN: USXXCO
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    -------------------      --------
     US 2004059131        A1    20040325    US 2003-620625           20030716
     US 2005010055        A1    20050113    US 2004-917058           20040812
PRIORITY APPLN. INFO.:                      US 2002-396827P      P   20020718
                                            US 2003-620625       A3  20030716
OTHER SOURCE(S):         CASREACT 140:270733; MARPAT 140:270733
GI
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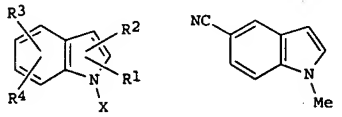

I II

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AB   Title compds. I [X = Me, benzyl; R1, R2, R3, R4 = H, halo, CN, etc.] were
     prepared via the DABCO catalyzed N-alkylation of indoles with di-Me or
     dibenzyl carbonate.  For example, N-methylation of 3-cyanoindole
     with di-Me carbonate in the presence of DABCO heated to reflux for 8 h,
     afforded methylindole II in 98% yield.  A solution of 3-cyanoindole (7.03
     mmol) in di-Me carbonate (10 mL) and DABCO (0.70 mmol) was heated to
     reflux for 8 h.  The reaction is cooled to RT, diluted with EtOAc and after
     aqueous workup, afforded Me indole II in 98% yield.  Approx., 8-examples of
     compds. I were prepared in 95-99% yields.  Of note, the methylation
     and benzylation of the indole nitrogen may be conducted in the
     absence or the presence of an ionic liquid, under microwave irradiation or
     utilizing conventional heat, or combinations thereof.

L6   ANSWER 3 OF 12  CAPLUS  COPYRIGHT 2005 ACS on STN
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ACCESSION NUMBER: 2004:97229 CAPLUS
DOCUMENT NUMBER: 140:146165
TITLE: Process for the monomethylation of **nitrogen** containing heterocycles with dimethyl carbonate
INVENTOR(S): Borredon, Elisabeth; Chabaud, Bernard; Gaset, Antoine; Ouk, Samedy; Thiebaud-Roux, Sophie
PATENT ASSIGNEE(S): SNPE, Fr.
SOURCE: Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

APPLICANTS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1386916	A1	20040204	EP 2003-291763	20030716
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2843114	A1	20040206	FR 2002-9820	20020801
FR 2843114	B1	20040910		
CA 2434481	AA	20040201	CA 2003-2434481	20030722
JP 2004067691	A2	20040304	JP 2003-281369	20030728
US 2004024205	A1	20040205	US 2003-632148	20030731

PRIORITY APPLN. INFO.: FR 2002-9820 A 20020801
OTHER SOURCE(S): CASREACT 140:146165

AB A procedure for the monomethylation of **nitrogen** containing heterocycles, containing at least one **nitrogen** atom connected to a hydrogen, with MeOCO2Me is characterized in that the reaction is carried out between 100° and 200° and at a pressure between 0.93 x 105 Pa and 1.07 x 105 Pa and that the MeOH, produced during the course of the reaction, is removed continuously. Thus, 1-methylimidazole was prepared in 98% yield from imidazole and MeOCO2Me in a reactor at 170° with continuous removal of MeOH.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:536602 CAPLUS
DOCUMENT NUMBER: 137:216608
TITLE: Photosensitized Oxidation of 13C,15N-Labeled Imidazole Derivatives
AUTHOR(S): Kang, Ping; Foote, Christopher S.
CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of California, Los Angeles, CA, 90095-1569, USA
SOURCE: Journal of the American Chemical Society (2002), 124(32), 9629-9638
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:216608
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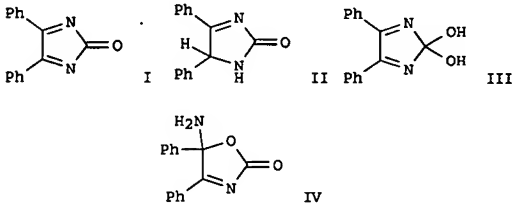

I II III IV

AB An efficient synthesis of imidazoles with isotope labeling at different positions of the five-membered ring was developed. The authors carried out a detailed mechanistic study of the photosensitized oxidation of isotope-labeled imidazole derivs. A new product, CO2, was observed in the photooxidn. of 2-H,N1-H imidazoles, but not in 2-substituted imidazoles. The C of CO2 derives from the 2C of imidazole. As shown by 18O expts., both O atoms of CO2 originate mainly from one mol. of O. Transient intermediates were detected by low-temperature NMR in the photosensitized oxidation of the isotope-labeled imidazoles. Quant. anal. of the 13C NMR at different temps. and times correlates the formation of one intermediate with the loss of another, thus allowing the complete decomposition pathway of the transient intermediates to be established. Singlet O reacts with 4,5-diphenylimidazole via a [4 + 2] cycloaddn. to form a 2,5-endoperoxide, which, upon warming, decomps. to a hydroperoxide. The hydroperoxide in one pathway loses water to form an imidazolone I, which is hydrolyzed to a hydroxyimidazol-2-one II. In another pathway, the hydroperoxide rearranges to diol III. The diol rearranges to a carbamate IV by opening and reclosing the five-membered ring. IV decomps. to CO2 and benzil diimine. A labile NH in the imidazole is crucial for the decomposition of the initially formed endoperoxide, otherwise the endoperoxide decomps. to regenerate starting material. Many similarities exist between the photooxidns. of imidazole and guanosine in organic solvent, suggesting that the two reactions share a similar reaction mechanism with singlet O.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:847229 CAPLUS
DOCUMENT NUMBER: 136:118057
TITLE: 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) and Microwave-Accelerated Green Chemistry in **Methylation** of Phenols, Indoles, and Benzimidazoles with Dimethyl Carbonate
AUTHOR(S): Shieh, Wen-Chung; Dell, Steven; Repic, Oljan
CORPORATE SOURCE: Chemical and Analytical Development, Novartis Institute for Biomedical Research, East Hanover, NJ, 07936, USA
SOURCE: Organic Letters (2001), 3(26), 4279-4281
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:118057

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AB 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) is a novel and active catalyst in promoting the **methylation** reaction of phenols, indoles, and benzimidazoles with di-Me carbonate under mild conditions. Addnl. rate enhancement is accomplished by applying microwave irradiation By incorporating tetrabutylammonium iodide, the same microwave reactions can

be further accelerated. By combining these acceleration strategies, very slow chemical transformations that take up to several days can be performed efficiently in high yield within minutes.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:811332 CAPLUS
DOCUMENT NUMBER: 132:66473
TITLE: Fuel compositions employing catalyst combustion structure
INVENTOR(S): Orr, William C.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9966009	A2	19991223	WO 1999-US13751	19990617
WO 9966009	A3	20000302		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2310056	AA	19991223	CA 1999-2310056	19990617
EP 1051461	A2	20001115	EP 1999-928773	19990617
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1998-98879	A 19980617
			WO 1999-US13751	W 19990617

AB This invention relates to a fuel composition relating to a broad spectrum of pollution reducing, improved combustion performance, and enhanced stability fuel compns. for use in jet, aviation, turbine, diesel, gasoline, and other combustion applications. More particularly, the present invention relates to metallic vapor phase combustion fuel compns. employing certain co-combustion agents, including trimethoxymethylsilane.

L6 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:436454 CAPLUS
DOCUMENT NUMBER: 127:50642
TITLE: Preparation of N-methylimidazole derivatives
INVENTOR(S): Kiso, Hiroyuki; Nagai, Yasuyuki; Hara, Yasushi
PATENT ASSIGNEE(S): Tosoh Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169737	A2	19970630	JP 1995-333139	19951221
PRIORITY APPLN. INFO.:			JP 1995-333139	19951221

OTHER SOURCE(S): MARPAT 127:50642

AB Claimed is a method for preparation of N-methylimidazole derivs. by reacting imidazole derivs. with di-Me carbonate at 120 to 200°. Di-Me carbonate 49.6 g (0.55 mol) was added over 6 h to 2-methylimidazole 41.1 g (0.5 mol) at 160° under nitrogen atmospheric Upon completion of addition of di-Me carbonate, the reaction was allowed to proceed for a further 2 h to obtain 94% conversion of 2-methylimidazole and 92% selectivity for 1,2-dimethylimidazole. In a reference example, the above reaction was carried out at 90° for 8 h to obtain 25% conversion of 2-methylimidazole.

L6 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:969471 CAPLUS
DOCUMENT NUMBER: 124:8245
TITLE: **Methylation** of organic compounds using dimethyl carbonate.
INVENTOR(S): Fischer, Rolf
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671379	A1	19950913	EP 1995-102942	19950302
EP 671379	B1	19970813		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 4407495	A1	19950914	DE 1994-4407495	19940307
CA 2143348	AA	19950908	CA 1995-2143348	19950224
ES 2107260	T3	19971116	ES 1995-102942	19950302
JP 07258192	A2	19951009	JP 1995-47544	19950307
US 5739375	A	19980414	US 1997-832850	19970404
PRIORITY APPLN. INFO.:			DE 1994-4407495	A 19940307
			US 1995-396718	B1 19950301

OTHER SOURCE(S): CASREACT 124:8245; MARPAT 124:8245

AB MeCR1R2X (R1, R2 = H, organic residue; R2 = CO2R3, cyano; X = COR3, CO2R3, CONH2, cyano, SO2R4; R3 = H, alkyl; R4 = alkyl; R1R4 = alkylene, alkenylene), were prepared by treatment of R1R2CHX or R1CHXY (Y = COR3, CO2R3) with (MeO)2CO in the presence of a **nitrogenous** base. Thus, valeronitrile was heated with (MeO)2CO and EtMe2N for 5 h at 200° to give 43% 2-methylvaleronitrile.

L6 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:533948 CAPLUS
DOCUMENT NUMBER: 121:133948
TITLE: Process for the preparation of **methylated** or hydroxyethylated 5-membered heterocycles
INVENTOR(S): Fischer, Rolf; Pinkos, Rolf
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 602515	A1	19940622	EP 1993-119734	19931208
EP 602515	B1	19980715		
R: BE, CH, DE, FR, GB, LI, NL				
DE 4242451	A1	19940623	DE 1992-4242451	19921216
US 5453516	A	19950926	US 1993-165463	19931213
PRIORITY APPLN. INFO.:			DE 1992-4242451	A 19921216

OTHER SOURCE(S): MARPAT 121:133948

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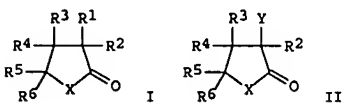


AB The title compds. (I; R1 = Me, hydroxyethyl; R2-R6 = H, C1-12 alkyl, C2-12 alkenyl, aryl, halogen, etc.; X = O, NR4) are readily prepared by reacting heterocycle II (Y = H, acetyl, C2-20 alkoxycarbonyl) with di-Me carbonate or ethylene carbonate in the presence of a N-containing base at 50-300°/0.01-50 bar. Thus, 4-methylbutyrolactone, di-Me carbonate, and NMe3 where reacted at 200° in an autoclave for 5 h, producing 2,4-dimethylbutyrolactone (b.p. 70-74°/10 mbar) in 74% yield.

L6 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:538758 CAPLUS
DOCUMENT NUMBER: 119:138758
TITLE: Preparation of dialkyl carbaonates from cyclic carbonates and alcohols
INVENTOR(S): Fukuoka, Shinsuke; Komya, Kyosuke
PATENT ASSIGNEE(S): Asahi Chemical Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05078284	A2	19930330	JP 1991-266844	19910919
JP 3016289	B2	20000306		
PRIORITY APPLN. INFO.:			JP 1991-266844	19910919

OTHER SOURCE(S): CASREACT 119:138758

AB Dialkyl carbaonates are prepared by treatment of cyclic carbonates with alcs. in the presence of solid (partially) quaternized N-containing heterocycles as catalysts. Ethylene carbonate and MeOH were passed through a column packed with N-**methylated** divinylbenzene-4-vinylpyridine copolymer (quaternization ratio .apprx.70%) at 7 kg/cm2 and 80° to give di-Me carbonate and trace high-b.p. substances, vs. remarkable high-b.p. substances, when tertiary aliphatic amine catalyst was used instead.

L6 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:235069 CAPLUS
DOCUMENT NUMBER: 116:235069
TITLE: Preparation of **nitrogen**-containing compounds by decarboxylation over mixed metal oxide catalysts
INVENTOR(S): King, Stephen Wayne; Ream, Bernard Claude
PATENT ASSIGNEE(S): Union Carbide Chemicals and Plastics Co., Inc., USA
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 480493	A2	19920415	EP 1991-202433	19910919
EP 480493	A3	19921125		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
US 5220069	A	19930615	US 1990-585456	19900920
CA 2051594	AA	19920321	CA 1991-2051594	19910917
AU 9184636	A1	19920326	AU 1991-84636	19910919
JP 06025109	A2	19940201	JP 1991-266880	19910919
PRIORITY APPLN. INFO.:			US 1990-585456 A	19900920

OTHER SOURCE(S): MARPAT 116:235069

AB RNH2 or RR1NH (R, R1 = organic residue) were prepared by contacting a carboxylated N-containing compound with a mixed metal oxide catalyst, e.g., MgO-Al2O3. The carboxylated N-containing compds. were obtained from NH3 or N-containing compds. and a CO2 synthon. Thus, NH3 and propylene carbonate were converted to monoisopropanolamine.

L6 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:135528 CAPLUS
DOCUMENT NUMBER: 116:135528
TITLE: Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative
CORPORATE SOURCE: United States Dept. of Transportation, Washington, DC, 20590-0001, USA
SOURCE: Federal Register (1990), 55(246), 52402-729, 21 Dec 1990
CODEN: FEREAC; ISSN: 0097-6326
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The hazardous materials regulations under the Federal Hazardous Materials Transportation Act are revised based on the United Nations recommendations on the transport of dangerous goods. The regulations cover the classification of materials, packaging requirements, and package marking, labeling, and shipping documentation, as well as transportation modes and handling, and incident reporting. Performance-oriented stds. are adopted for packaging for bulk and nonbulk transportation, and SI units of measurement generally replace US customary units. Hazardous material descriptions and proper shipping names are tabulated together with hazard class, identification nos., packing group, label required, special provisions, packaging authorizations, quantity limitations, and vessel stowage requirements.

=> s l3 not l6
L7 277 L3 NOT L6

=> s l7 and heterocyc?
138567 HETEROCYC?
L8 24 L7 AND HETEROCYC?

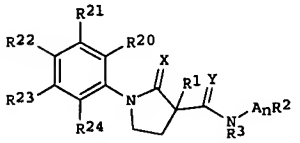
=> d 1-24 ibib abs

L8 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:370902 CAPLUS
DOCUMENT NUMBER: 140:375065
TITLE: Preparation of 2-oxo-1-phenylpyrrolidine-3-carboxamides as herbicides.
INVENTOR(S): Reinhard, Robert; Hamprecht, Gerhard; Puhl, Michael; Seitz, Werner; Parra Rapado, Liliana; Scannell-Lansky, Annegret; Grossmann, Klaus; Schiffer, Helmut; Witschel, Matthias; Zagar, Cyrill; Landes, Andreas; Rack, Michael
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037787	A1	20040506	WO 2003-EP11557	20031017
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: DE 2002-10248700 A 20021018
OTHER SOURCE(S): MARPAT 140:375065
GI



I

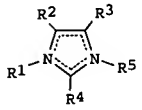
AB Title compds. [I; R1 = H, OH, Cl, Br, alkyl, cycloalkyl, alkenyl, alkynyl, COR4, CO2R4; R2, R3 = H, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, Ph, **heterocyclyl**, etc.; R3NAnR2 = atoms to form a (substituted) 3-7 membered **heterocyclyl**; R20-R24 = H, OH, cyano, NO2, halo, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, alkoxy, haloalkoxy, alkylthio, COR4, alkoxyalkyl, etc.; X, Y = O, S; n = 0, 1; A = O, S, SO, SO2, NR12; R4 = H, alkyl; R12 = H, alkyl, alkenyl, alkynyl], were prepared Thus, 3-trifluoromethylaniline, butyrolactone, and concentrate HCl were refluxed 13 h to give 85% 1-(3-trifluoromethyl)phenyl-2-pyrrolidinone. The latter in THF at 0° was treated with LDA and 45 min. later with di-Me carbonate in THF followed by warming to 20° and stirring for 72 h to give 34% 2-oxo-1-(3-trifluoromethyl)phenyl-3-pyrrolidinecarboxylic acid. This was stirred with carbonyldiimidazole and aqueous MeNH2 in CH2Cl2 to give 32% 1-(3-trifluoromethyl)phenyl-3-(N-methyl)carboxamido-2-pyrrolidinone. I at 3 kg/ha postemergent gave very good herbicidal activity against e.g. velvetleaf.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:213307 CAPLUS
DOCUMENT NUMBER: 140:270850
TITLE: Process for conducting chemical reactions in a liquid phase in the presence of a catalyst and a 1,3-substituted imidazolium salt
INVENTOR(S): Weigl, Hagen; Ebel, Klaus; Boehm, Volker
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1398318	A1	20040317	EP 2003-19118	20030823
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10241555	A1	20040318	DE 2002-10241555	20020907

PRIORITY APPLN. INFO.: DE 2002-10241555 A 20020907
OTHER SOURCE(S): CASREACT 140:270850; MARPAT 140:270850
GI



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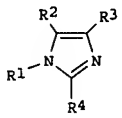


II

AB A procedure for conducting a chemical reaction in the liquid phase through conversion of the substrate in the presence of: (a) a catalyst (a complex containing Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Ti, Zr, V, Mn or Sc); (b) a 1,3-substituted imidazolium salt [I]+·Aa-1/a [R1, R2, R3, R4, R5 = (un)substituted, (un)saturated C1-30-alkyl, cycloalkyl, aryl, aralkyl, **heterocyclyl**, heteroaryl; R2, R3, R4 = H, halogen functional group; R1R2, R1R4, R2R3 can be connected; Aa- = F, PF6-, SbF6-, AsF3-, NO2-, NO3-, SO4-2, HSO4-, CO3-2, HCO3-, PO4-3, HPO4-2, H2PO4-, tetrasubstituted borate, BRaRbRcRd {Ra, Rb, Rc, Rd = F, (un)substituted, (un)saturated C1-30-alkyl, cycloalkyl, aryl, aralkyl}, ReSO3- {Re = (un)substituted, (un)saturated C1-30-alkyl, cycloalkyl, aryl, aralkyl}, RfCO2- {Rf = H, (un)substituted, (un)saturated C1-30-alkyl, cycloalkyl, aryl, aralkyl}, etc.] (with a mp. ≤ 200° at normal pressure) is presented. I is prepared (i) from imidazole II via a reaction with carbonic acid diester, C(:O)(OR5)2, at a temperature of 10 - 350° and a pressure of 0.01 to 5 MPa; and (ii) reaction of the latter with HaA or its salt at a temperature of -80 to 200° and a pressure of 0.001 to 1 MPa. Thus, 1-butyl-3-methylimidazolium tetrafluoroborate was prepared from 1-butylimidazole via reaction with (MeO)2C:O in MeOH, followed by HBF4 in Et2O; the latter was then used in the synthesis of PhC6H4Me-4 via Suzuki coupling of BrC6H4Me-4 with PhB(OH)4 in the presence of Pd(PPh3)4 in H2O containing Na2CO3.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:590882 CAPLUS
DOCUMENT NUMBER: 139:133347
TITLE: Microwave irradiation process for preparing methyl carboxylate esters from carboxylate salts or carboxylic acids and dimethyl carbonate
INVENTOR(S): Shieh, Wen-Chung; Dell, Steven
PATENT ASSIGNEE(S): Novartis AG, USA
SOURCE: U.S. Pat. Appl. Publ., 8 pp., Cont.-in-part of U.S.

Ser. No. 24,055, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003144543	A1	20030731	US 2002-214644	20020808
US 6653503	B2	20031125		

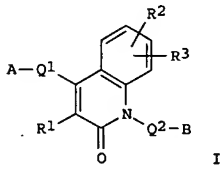
PRIORITY APPLN. INFO.: US 2001-24055 B2 20011217
OTHER SOURCE(S): CASREACT 139:133347; MARPAT 139:133347

AB An accelerated process for preparing a Me ester R1CO2CH3 (R1 = alkyl, aryl, alkoxy, alkenyl, cycloalkyl, benzocycloalkyl, cycloalkylalkyl, aralkyl, **heterocyclic**, heteroaralkyl, alkoxyalkyl, carboxyalkyl, alkylcarbonyl, alkoxycarbonyl, alkoxycarbonylalkyl, haloalkyl; e.g., Me benzoate) is presented which comprises reacting a carboxylic acid or salt R1CO2M (M = hydrogen, monovalent metal, monovalent fractional part of a polyvalent metal; e.g., benzoic acid) with di-Me carbonate in the presence of a catalyst selected from 1,8-diazabicyclo[5.4.0]undec-7-ene, 1,4-diazabicyclo[2.2.2]octane, 4-dimethylaminopyridine, and combinations thereof, and the esterification is conducted under microwave irradiation at a frequency range of 300 MHz to 30 GHz, and at 120-300° for a period of microwave irradiation time from about 1 s to about 300 min. The process is especially advantageous for preparing Me esters since it: (1) utilizes an environmentally friendly **methylating** reagent, dimethylcarbonate; (2) produces a high yield of the Me ester, generally 95-99% conversion in less than 30 min of microwave irradiation; (3) minimizes degradation and/or racemization of optically pure compds.; and (4) minimizes the formation of byproducts.

L8 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:389980 CAPLUS
DOCUMENT NUMBER: 138:401612
TITLE: Preparation of carbostyryl derivatives and their use as oxytocin antagonists and therapeutics for treatment of premature delivery, miscarriage, dysmenorrhea, and galactorrhea
INVENTOR(S): Shiraiwa, Masafumi; Ota, Shuji; Takefuchi, Ken; Uchida, Hiroshi; Saegusa, Mamoru; Mitsubori, Tomohiro; Yoshizawa, Masayuki
PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 142 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003146972	A2	20030521	JP 2001-348850	20011114

PRIORITY APPLN. INFO.: JP 2001-348850 20011114
OTHER SOURCE(S): MARPAT 138:401612
GI



I

AB Title derivs. I [Q1 = bond, CH2, CH2CH2, vinyl, CHMe, etc.; A = lower alkyl, (un)substituted cycloalkyl (condensed with hydrocarbyl ring), (un)substituted aryl, (un)substituted **heterocyclyl** (condensed with hydrocarbyl ring); R1 = H, lower alkyl; R2, R3 = H, (un)substituted lower alkyl(oxy), aralkyloxy, piperidinyl, etc.; R2R3 may be linked to form lower alkylenedioxy; Q2 = bond, CH2, CH2CH2, etc.; B = CO2H, lower alkoxycarbonyl, (un)substituted 2-pyridinyl, (un)substituted Ph, (un)substituted cyclohexyl, etc.] or their salts are claimed. The derivs. are also useful for termination of delivery prior to Caesarean section. Thus, 4-(2,3-dimethoxyphenyl)-7-methoxy-2-oxoquinoline was treated with Me 4-bromomethylbenzoate to give 56% I (AQ1 = 2,3-dimethoxyphenyl, R1-R3 = H, Q2B = 4-CH2C6H4CO2Me), which inhibited binding of [3H]-oxytocin to its receptor with IC50 of 0.972 μmol/L.

L8 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:242310 CAPLUS
DOCUMENT NUMBER: 138:255258
TITLE: Preparation of **heterocycle**-fused naphthalene compounds as HIV inhibitors
INVENTOR(S): Inaba, Takashi; Kaya, Tetsudo; Watanabe, Wataru
PATENT ASSIGNEE(S): Japan Tobacco, Inc., Japan
SOURCE: PCT Int. Appl., 163 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024941	A1	20030327	WO 2002-JP9587	20020918

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-283719 A 20010918
OTHER SOURCE(S): MARPAT 138:255258
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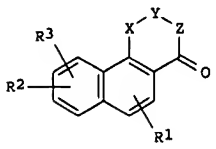

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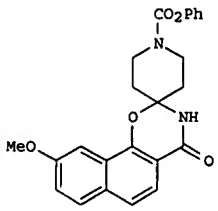

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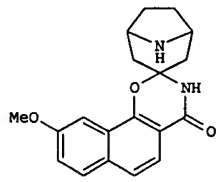

III

AB 1,3-Oxazine-, 1,3-thiazine-, pyran-, 1,4-oxazepine-, and 1,4-thiazepine-fused naphthalene compds. represented by the general formula (I) or pharmaceutically acceptable salts, hydrates or solvates thereof [wherein R1 = H, (un)substituted C1-6 alkyl, halo, NO2, NH2, CO2H, (un)substituted aryl, optionally benzene-fused 5- or 6-membered aromatic or saturated **heterocyclyl** containing 1-3 heteroatoms selected from N, S, and O, (un)substituted aryl-carbonylamino; R2, R3 = H, C1-6 alkyl or alkoxy, halo, NH2, C1-6 alkylamino, di(C1-6 alkyl)amino, no, cyano, CONH2, coh2, C2-7 alkylcarbonylamino, C3-13 alkxoycarbonylaminoalkoxy, C1-6 aminoalkoxy, C3-13 alkylcarbonylaminoalkoxy; X = O, S; Y = CR4R5, CR4R5CH2, CH2CR4R5 (wherein R4, R5 = H, C1-6 alkyl, CO2H, C2-6 alkoxycarbonyl, optionally substituted aryl, C2-7 alkoxycarbonylalkyl, hydroxyalkyl, C3-7 cycloalkyl-alkyl, arylalkyl, etc.); Z = CH2, (un)substituted NH; one proviso applied) are prepared These compds. I exhibit anti-HIV activity and inhibit the proliferation of HIV during the latent period from HIV infection to onset of AIDS and are useful in the treatment of AIDS either in combinations of reverse transcriptase inhibitors and/or protease inhibitors and/or integrase inhibitors for highly active antiretroviral therapy (HAART) or after interruption of therapy against reverse transcriptase or protease-resistant virus. Thus, a suspension of 900 mg 1-hydroxy-7-methoxynaphthalene-2-carboxamide, 2.41 g benzyl 4-oxopiperidinecarboxylate, and 788 mg p-MeC6H4SO3H.H2O in 9 mL toluene was heated at 120° for 1 h to give, after workup, 74% 6-methoxy-2-aza-4-oxaphenanthrene-1-one-3-spiro-4'-(1'-benzyloxycarbonyl)piperidine (II). II and the compound (III) showed IC50 of 0.11 and <0.0016 μM, resp., for inhibiting the proliferation of OM10.1 cell (HL-60 cell clone transfected with one copy of HIV-1 gene).

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:153395 CAPLUS
DOCUMENT NUMBER: 138:194942
TITLE: Polymer electrolytes and their use in galvanic cells
INVENTOR(S): Schmidt, Michael; Ott, Frank; Geissler, Wilfried
PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10139409	A1	20030227	DE 2001-10139409	20010817
WO 2003017409	A2	20030227	WO 2002-EP8287	20020725
WO 2003017409	A3	20040122		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1417726	A2	20040512	EP 2002-760270	20020725
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005500432	T2	20050106	JP 2003-522206	20020725
US 2004209124	A1	20041021	US 2004-487020	20040217

PRIORITY APPLN. INFO.: DE 2001-10139409 A 20010817
WO 2002-EP8287 W 20020725

AB The invention concerns the preparation and applications of mixts. from borate or phosphate salts, in particular spiroborate or spirophosphate salts, and polymers and their use in electrolytes, batteries, capacitors, supercapacitors and galvanic cells. The several groups of compds. which could be synthesized are described. An effect of the substituent and solvent on the polymer electrolyte mixts. is pointed out.

L8 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:133258 CAPLUS
DOCUMENT NUMBER: 138:170089
TITLE: Preparation of 1-benzazocine-5-carboxamides and related bicyclic compounds as CCR-5 antagonists for use against HIV infectious and other diseases
INVENTOR(S): Shiraishi, Mitsuru; Baba, Masanori; Aikawa, Katsuji; Kanzaki, Naoyuki; Seto, Masaki; Iizawa, Yuji
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 318 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003014105	A1	20030220	WO 2002-JP8043	20020807
WO 2003014105	C2	20031120		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003335776	A2	20031128	JP 2002-229532	20020807
EP 1423376	A1	20040602	EP 2002-762751	20020807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE

US 2004259876	A1	20041223	US 2004-484762		20040123
PRIORITY APPLN. INFO.:			JP 2001-240750	A	20010808
			JP 2002-66809	A	20020312
			WO 2002-JP8043	W	20020807

OTHER SOURCE(S): MARPAT 138:170089

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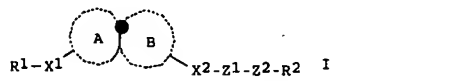

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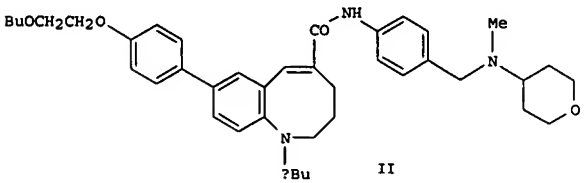


II

AB The present invention provides 1-benzazocine-5-carboxamides and related bicyclic compds. (shown as I or a salt thereof; variables defined below; e.g. 8-[4-(2-butoxyethoxy)phenyl]-1-isobutyl-N-[4-[[N-methyl-N-(tetrahydropyran-4-yl)amino]methyl]phenyl]-1,2,3,4-tetrahydro-1-benzazocine-5-carboxamide (shown as II)) having a CCR antagonist activity, especially a CCR5 antagonist activity, and the use thereof. For I: R1 is a 5- to 6-membered ring group which may be substituted; X1 is a bond or bivalent chain; ring A is a 5- to 6-membered ring group which may be substituted; ring B is a 8- to 10-membered ring group which may be substituted; X2 is a bivalent chain; Z1 is a bond or bivalent cyclic ring group; Z2 is a bond or a bivalent group; and R2 is an amino group, a N-containing **heterocyclic** group, etc. Fifty examples of preparation of I and 63 examples of preparation of intermediates are included. For example, 8-[4-(2-butoxyethoxy)phenyl]-N-[4-[[N-methyl-N-(tetrahydropyran-4-yl)amino]methyl]phenyl]-3,4-dihydro-2H-1-benzoxocin-5-carboxamide (66 mg) was prepared by 1st adding DMF, then thionyl chloride to 8-[4-(2-butoxyethoxy)phenyl]-3,4-dihydro-2H-1-benzoxocin-5-carboxylic acid (80 mg); this mixture was added to 4-[[N-methyl-N-(tetrahydropyran-4-yl)amino]methyl]aniline (57 mg) and triethylamine in THF. CCR-5 binding inhibitory ratios (%) are tabulated for 28 examples of I at 1 μM. Six examples of pharmaceutical compns. are included.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	2002:889224 CAPLUS
DOCUMENT NUMBER:	137:369739
TITLE:	Process for obtaining N-monosubstituted alkyl amides
INVENTOR(S):	Lebedev, Mikhail Yu.; Erman, Mark B.
PATENT ASSIGNEE(S):	Millennium Specialty Chemicals, USA
SOURCE:	U.S., 13 pp. CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6482983	B1	20021119	US 2001-919379	20010731
WO 2003011816	A1	20030213	WO 2002-US22946	20020719
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1414786	A1	20040506	EP 2002-752460	20020719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, SK				
JP 2004536882	T2	20041209	JP 2003-517009	20020719
US 2003120113	A1	20030626	US 2002-288067	20021105

PRIORITY APPLN. INFO.:			US 2001-919379	A 20010731
			WO 2002-US22946	W 20020719

OTHER SOURCE(S): CASREACT 137:369739; MARPAT 137:369739

AB A process for the preparation of N-monosubstituted amides is disclosed. The process for amides of formula R-CO-NH-CH2-X [R = H, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, **heterocyclic**; X = H, CHR1R2; R1-2 = H, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, **heterocyclic**] involves contacting a nitrile of the general formula R-CN with an acid and an alkoxy-containing compound comprising at least one alkoxy functionality of the general formula -OCH2-X. Over 40 examples are provided. For instance, methanol (0.59 mol) is added to 54 g of 27-33% sulfuric acid at ca. 8°. The mixture is heated to 95° and held for 1 h; after addition of 0.196 mol of 2,3-dimethyl-2-(1-methylethyl)butanenitrile, the temperature rose to ca. 120° over a period of 20 min. Aqueous work-up affords 1.3% of unreacted nitrile, 78.9% of the corresponding N-**methylamide** and 17.3% of the unsubstituted amide. Effect of stoichiometry, reaction temperature, addition sequence, variation of alkoxy-containing reactant and acid on yield was evaluated. This process modification of the Ritter reaction provides a more general route to N-monosubstituted amides than prior art methods.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	2002:849591 CAPLUS
DOCUMENT NUMBER:	137:370112
TITLE:	Preparation of derivatives of **heterocyclic** compounds such as pyridine, pyrimidine, 1,2,4-triazine, and pyrazine as antagonists of prostaglandin I2 receptor
INVENTOR(S):	Asaki, Tetsuo; Hamamoto, Taisuke; Kuwano, Keiichi
PATENT ASSIGNEE(S):	Nippon Shinyaku Co., Ltd., Japan
SOURCE:	PCT Int. Appl., 126 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

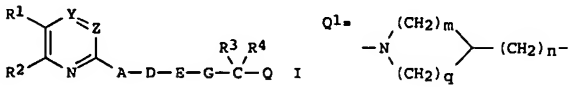
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088084	A1	20021107	WO 2002-JP4118	20020425
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1400518	A1	20040324	EP 2002-722772		20020425
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
BR 2002009249	A	20040608	BR 2002-9249		20020425
US 2004102436	A1	20040527	US 2003-476196		20031023
PRIORITY APPLN. INFO.:			JP 2001-129765	A	20010426
			WO 2002-JP4118	W	20020425

OTHER SOURCE(S): MARPAT 137:370112

GI



AB The invention provides compds. useful as PGI2 receptor agonist and pharmaceutical compns., particularly pharmaceutical compns. containing as the active ingredient compds. represented by the general formula (I) or pharmaceutically acceptable salts thereof [wherein R1 and R2 are each independently optionally substituted aryl; Y is N, N(O), or optionally substituted CH; Z is N or optionally substituted CH; A is optionally substituted NH, O, S, SO, SO2, or ethylene; D is an optionally hydroxy-substituted alkylene or alkenylene; or A and D together represents a bivalent group Q1 (wherein m is an integer of 0-2; q is 2 or 3; n is an integer of 0-4); E is phenylene or a single bond; G is O, S, or optionally substituted CH2; R3 and R4 are each independently hydrogen or alkyl; and Q is carboxyl, alkoxycarbonyl, tetrazolyl, carbamoyl, mono- or dialkylcarbamoyl, CONHSO2R10 (wherein R10 is optionally substituted alkyl, aryl, aryloxy, or **heterocyclyl**)]. These compds. are useful as platelet aggregation inhibitors or remedies for chronic artery obstruction, intermittent limping (claudication) (Charcot's syndrome), or peripheral artery embolism. Thus, a solution of 763 mg 5,6-diphenyl-2-(**methylamino**)pyrazine in 4 mL DMF was added 140 mg 60% NaH, stirred at 80° for 30 min, and cooled in an ice bath followed by adding slowly a solution of 657 mg Me 2-(4-bromobutyloxy)acetate in 2 mL DMF, and the resulting mixture was stirred at room temperature for 14 h to give 240 mg Me 2-[4-[N-(5,6-diphenylpyrazin-2-yl)-N-**methylamino**]butyloxy]acetate (II). II was saponified with a mixture of 1 N aqueous NaOH and MeOH under reflux for 2 h, followed by removing the solvent under reduced pressure, adding water, extracting the aqueous solution with Et2O, neutralizing it with 1 N aqueous HCl, and extracting it with EtOAc to give 2-[4-[N-(5,6-diphenylpyrazin-2-yl)-N-**methylamino**]butyloxy]acetic acid (III). III showed IC50 of 0.2 μM for inhibiting the ADP (ADT)-induced aggregation of human blood platelet and at 1 μM inhibited the [3H]-Iloprost binding on human platelet membrane by 85%. Pharmaceutical formulations, e.g. tablet containing tert-Bu 2-[4-(5,6-diphenylpyrazin-2-ylsulfonyl)butyloxy]acetate, were described.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:247693 CAPLUS
DOCUMENT NUMBER: 134:254717
TITLE: Lactone solvents for electrochemical cells
INVENTOR(S): Barker, Jeremy; Gao, Feng; Thurston, Edward P.
PATENT ASSIGNEE(S): Valence Technology, Inc., USA; Delphi Technologies, Inc.
SOURCE: PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001024305	A1	20010405	WO 2000-US20473	20000726
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002039688	A1	20020404	US 1999-408065	19990929
CA 2385963	AA	20010405	CA 2000-2385963	20000726
EP 1216490	A1	20020626	EP 2000-952230	20000726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003510792	T2	20030318	JP 2001-527393	20000726
PRIORITY APPLN. INFO.:			US 1999-408065	A1 19990929
			WO 2000-US20473	W 20000726

AB An electrochem. cell is disclosed having an electrolyte comprising a solvent and a solute, the solute comprising a lithium salt, and the solvent comprising an organic solvent selected from the group of lactones.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

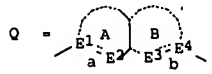
L8 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:814466 CAPLUS
DOCUMENT NUMBER: 133:362714
TITLE: Preparation of cyclic compounds having antagonism against β-beta chemokine receptor (CCR5)
INVENTOR(S): Shiraishi, Mitsuru; Baba, Masanori; Seto, Masaki; Kanzaki, Naoyuki; Nishimura, Osamu
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 282 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

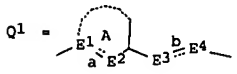
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000068203	A1	20001116	WO 2000-JP2825	20000428
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

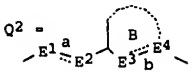
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2373073	AA	20001116	CA 2000-2373073	20000428
JP 2001026586	A2	20010130	JP 2000-134249	20000428
EP 1182195	A1	20020227	EP 2000-921096	20000428
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6627651	B1	20030930	US 2001-980773	20011102
PRIORITY APPLN. INFO.:			JP 1999-127724 A	19990507
			WO 2000-JP2825 W	20000428

OTHER SOURCE(S): MARPAT 133:362714
GI







AB Compds. of general formula R1-X1-W-X2-Z1-Z2-R2 or salts thereof [wherein R1 is an optionally substituted five- or six-membered ring group; X1 is a free valency or divalent group having 1-4 C atoms in the straight chain moiety; W is a divalent group represented by general formula Q, Q1, or Q2 (wherein A and B are each an optionally substituted five- to seven-membered ring; E1 and E4 are each optionally substituted carbon or N; E2 and E3 are each optionally substituted carbon or N, O, or optionally oxidized S; and a and b are each a single bond or a double bond); X2 is a divalent group constituting a C1-4 straight chain moiety; Z1 is a single bond or a divalent cyclic group; Z2 is a free valency or divalent group having 1-4 C atoms in the straight chain moiety; and R2 is (1) optionally substituted, quaternized, or oxidized amino, (2) optionally substituted N-containing **heterocyclyl** optionally containing S or O and optionally quaternized or oxidized at the N atom, (3) group bonding through S atom, etc.] are prepared These compds. exhibit preventive and therapeutic effects against HIV infections or AIDS. Thus, chlorination of 7-[(2-propoxybenzyl)oxy]-1,1-dioxo-2,3-dihydro-1-benzothiepin-4-carboxylic acid by SOCl2 in the presence of one drop of DMF at room temperature for 1 h followed by condensation with 4-[[N-methyl-N-(tetrahydropyran-4-yl)amino]methyl]aniline in the presence of Et3N in THF at room temperature for

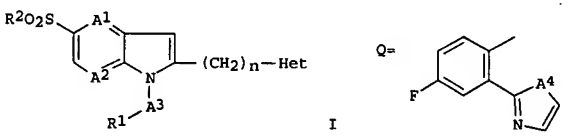
days gave N-[4-[[N-methyl-N-(tetrahydropyran-4-yl)amino]methyl]phenyl]-7-[(2-propoxybenzyl)oxy]-1,1-dioxo-2,3-dihydro-1-benzothiepin-4-carboxamide (I). I in vitro inhibited the binding of 125I-RANTES to recombinant CCR5 receptor by 98%. A capsule and a tablet formulation containing I were prepared

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:764033 CAPLUS
DOCUMENT NUMBER: 132:12319
TITLE: Preparation of **heterocyclic** indole derivatives and mono- or diazaindole derivatives as cyclooxygenase-2 (COX-2) inhibitors
INVENTOR(S): Matsuoka, Hiroharu; Kato, Nobuaki; Takahashi, Tadakatsu; Maruyama, Noriaki; Ishizawa, Takenori; Suzuki, Yukio
PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961436	A1	19991202	WO 1999-JP2718	19990525
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9938511	A1	19991213	AU 1999-38511	19990525
EP 1086950	A1	20010328	EP 1999-921245	19990525
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6673797	B1	20040106	US 2000-701188	20001127
US 2004067964	A1	20040408	US 2003-674488	20031001
PRIORITY APPLN. INFO.:			JP 1998-143957 A	19980526
			JP 1998-323553 A	19981113
			WO 1999-JP2718 W	19990525
			US 2000-701188 A3	20001127

OTHER SOURCE(S): MARPAT 132:12319
GI



AB Indole derivs. and mono- or diazaindole derivs. represented by general formula (I; wherein Het represents an optionally substituted **heterocycle**; A1 and A2 independently represent each CH or N; A3 represents CH2, CO, or SO2; R1 represents 4-fluorophenyl, 5-methyl-4H-1,2,4-triazol-3-yl, 5-methylpyridin-2-yl, 4-methylpiperazin-1-yl, cyclohexyl, pyridin-2-yl, 3,4-dichlorophenyl, 2,4-difluorophenyl, or Q; wherein A4 = O, S, or NH; R2 represents linear or branched C1-3 alkyl;

and n is 0, 1 or 2, provided that when A1 and A2 are both CH, then A3 is CH2 or SO2), pharmaceutically acceptable acid-addition salts or base-addition salts thereof or hydrates of the same, which have a COX-2 inhibitory activity and are useful as drugs such as anti-inflammatory agents, are prepared Thus, 2-(2-furyl)-5-(methanesulfonyl)-1H-pyrrolo[2,3-b]pyridine (preparation given) was stirred with NaH in DMF at 0° for 30 min and then stirred with 4-fluorobenzyl bromide for 1 h to give the title compound (II). II showed IC50 of 0.15 and >20 μM against COX-2 and COX-1, resp.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:401574 CAPLUS
DOCUMENT NUMBER: 131:58655
TITLE: Process for the alkylation of alkyl- or benzylnitriles with alkyl halides in the presence of trialkylamine or phosphine catalysts
INVENTOR(S): Korb, Gerhard; Flemming, Hans-wolfram; Lehnert, Rudolf
PATENT ASSIGNEE(S): Hoechst Marion Roussel Deutschland GmbH, Germany; Aventis Pharma GmbH
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 924196	A1	19990623	EP 1998-123418	19981209
EP 924196	B1	20030618		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19756091	A1	19990624	DE 1997-19756091	19971217
DE 19803408	A1	19990805	DE 1998-19803408	19980129
AT 243191	E	20030715	AT 1998-123418	19981209
PT 924196	T	20031128	PT 1998-123418	19981209
ES 2200260	T3	20040301	ES 1998-123418	19981209
NZ 333375	A	20000526	NZ 1998-333375	19981215
CZ 293875	B6	20040818	CZ 1998-4148	19981215
CA 2256941	AA	19990617	CA 1998-2256941	19981216
NO 9805895	A	19990618	NO 1998-5895	19981216
AU 9897142	A1	19990708	AU 1998-97142	19981216
AU 740310	B2	20011101		
BR 9805350	A	20000321	BR 1998-5350	19981216
US 6143896	A	20001107	US 1998-212585	19981216
RU 2219165	C2	20031220	RU 1998-122663	19981216
CN 1222505	A	19990714	CN 1998-125573	19981217
CN 1119322	B	20030827		
JP 11263766	A2	19990928	JP 1998-358868	19981217
HK 1020568	A1	20031224	HK 1999-105667	19991203
PRIORITY APPLN. INFO.:			DE 1997-19756091 A	19971217
			DE 1998-19803408 A	19980129

OTHER SOURCE(S): CASREACT 131:58655; MARPAT 131:58655

AB α,α-Dialkylated alkyl- or benzonitriles R1(R2)(R3)CN [R1 = (un)substituted C1-20 alkyl, (un)substituted C2-20 alkenyl; R2 = (un)substituted Ph; R3 = (un)substituted Ph; CR1R2 = **heterocyclyl** moiety] are prepared in high yield and selectivity by the alkylation of a nitrile R1CH2CN with an (un)substituted alkyl halide or dihaloalkane in the presence of an amine or phosphine catalyst. Thus, PhCH2CN was alkylated with chloromethane in the presence of aqueous NaOH solution and trioctylamine, producing 2,2-dimethyl-2-phenylacetonitrile in 99% yield.

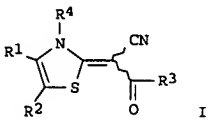
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:314667 CAPLUS
DOCUMENT NUMBER: 129:50850
TITLE: Antifouling agents containing oxopropionitriles for control of aquatic organisms
INVENTOR(S): Okura, Tomoyuki; Murakami, Hiroshi; Numada, Akira; Miyaji, Rika
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10130107	A2	19980519	JP 1996-283527	19961025
PRIORITY APPLN. INFO.:			JP 1996-283527	19961025

OTHER SOURCE(S): MARPAT 129:50850

GI



I

AB The antifouling agents contain ≥1 oxopropionitrile I (R1, R2, R4 = H, substituent; R3 = 5- or 6-membered **heterocyclyl**) as an active ingredient. I (R1 = 2,6-difluorophenyl, R2 = R4 = H, R3 = 5-chloro-3-trifluoromethyl-1-methylpyrazol-4-yl) (2 mg) was dissolved in 1 mL Me2CO, applied to paper within a circle of diameter 4 cm, and dried. Adhesion of Mytilus edulis to the paper was inhibited. 3-(1-Methyl-3,5-dichloropyrazol-4-yl)-2-(4-phenyl-2,3-dihydrothiazol-2-ylidene)-3-oxopropionitrile (0.68 g) was prepared by refluxing 0.8 g 2-cyanomethyl-4-phenylthiazole and 0.85 g 1-methyl-3,5-dichloropyrazole-4-carbonyl chloride in xylene in the presence of 4-dimethylaminopyridine. Formulation examples are given.

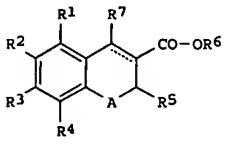
L8 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:163583 CAPLUS
DOCUMENT NUMBER: 128:204879
TITLE: Preparation and formulation of chromene-3-carboxylic acid derivatives as endothelin antagonists
INVENTOR(S): Ishizuka, Natsuki; Matsumura, Ken-Ichi; Sakai, Katsunori; Konoike, Toshiro; Yorifuji, Tadahiko; Hara, Seijiro; Matsuo, Yoshiyuki; et al.
PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9808836	A1	19980305	WO 1997-JP2916	19970822
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				

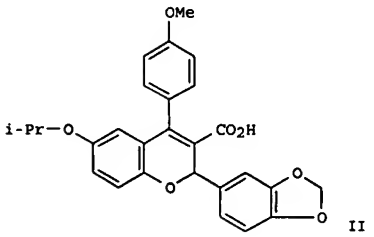
DK, BE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA 2262671	AA	19980305	CA 1997-2262671		19970822
AU 9738679	A1	19980319	AU 1997-38679		19970822
EP 924207	A1	19990623	EP 1997-935855		19970822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
CN 1234029	A	19991103	CN 1997-199090		19970822
JP 3076066	B2	20000814	JP 1998-502698		19970822
TW 438789	B	20010607	TW 1997-86112147		19970823
KR 2000035838	A	20000626	KR 1999-701525		19990225
US 6218427	B1	20010417	US 1999-242898		19990426
PRIORITY APPLN. INFO.:			JP 1996-225409	A	19960827
			JP 1996-270052	A	19961011
			WO 1997-JP2916	W	19970822

OTHER SOURCE(S): MARPAT 128:204879
GI



I



II

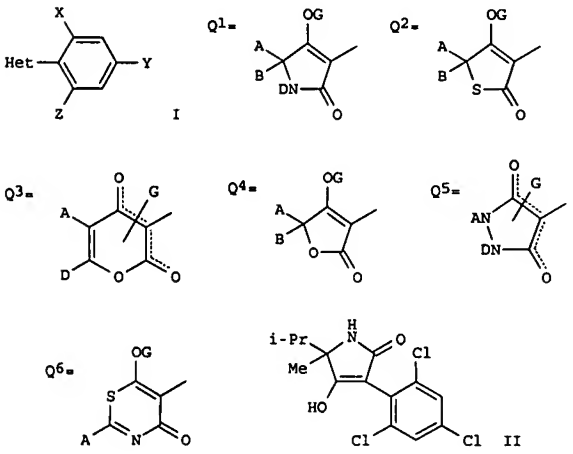
AB The title compds. I [R1, R2, R3 and R4 independently represent each hydrogen, optionally substituted alkyl, hydroxy, optionally substituted alkoxy, etc.; R5 represents optionally substituted alkyl, optionally substituted aryl, optionally substituted **heterocycle**, etc.; R6 represents hydrogen, optionally substituted alkyl, etc.; R7 represents hydrogen, optionally substituted alkyl, optionally substituted alkoxy, optionally substituted aryl, optionally substituted **heterocycle**, etc.; A represents S or O; and the broken line means the presence or absence of a bond] are prepared I are also useful as remedies for peripheral circulatory insufficiency or macrophage foaming inhibitors. In an in vitro test for ETA receptor antagonism, the title compound II showed IC50 of 0.89 nM; in the in vitro test for ETB receptor antagonism, II showed IC50 of 180 nM.

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:41800 CAPLUS
DOCUMENT NUMBER: 126:74741
TITLE: Alkyl dihalogenated phenyl-substituted keto enols useful as pesticides and herbicides
INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachim; et al.
PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al.
SOURCE: PCT Int. Appl., 231 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9635664	A1	19961114	WO 1996-EP1781		19960429
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US					
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
DE 19545467	A1	19961114	DE 1995-19545467		19951206
CA 2220440	AA	19961114	CA 1996-2220440		19960429
AU 9657626	A1	19961129	AU 1996-57626		19960429
EP 825982	A1	19980304	EP 1996-914146		19960429
EP 825982	B1	20021127			
R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
CN 1189153	A	19980729	CN 1996-195072		19960429
CN 1131209	B	20031217			
BR 9608229	A	19981229	BR 1996-8229		19960429
JP 11505220	T2	19990518	JP 1996-533707		19960429
ES 2184858	T3	20030416	ES 1996-914146		19960429
CN 1473814	A	20040211	CN 2003-2003136022		19960429
ZA 9603633	A	19961125	ZA 1996-3633		19960508
US 6316486	B1	20011113	US 1997-945664		19971031
US 6380246	B1	20020430	US 1999-404424		19990923
US 2003199572	A1	20031023	US 2001-17695		20011214
PRIORITY APPLN. INFO.:			DE 1995-19516258	A	19950509
			DE 1995-19545467	A	19951206
			WO 1996-EP1718	A2	19960429
			WO 1996-EP1781	W	19960429
			US 1997-945664	B3	19971031
			US 1999-404424	A3	19990923

OTHER SOURCE(S): MARPAT 126:74741
GI



AB Title compds. I [X = halo, Y, Z = halo or alkyl, provided that 1 of Y and Z always = halo, and the other = alkyl; Het = 1 of the **heterocyclic** groups Q1-Q6; A = H, (halo)alkyl, alkenyl, alkoxyalkyl, (un)substituted cycloalkyl or **heterocyclyl**, etc.; B = H, alkyl, alkoxyalkyl; D = H, (un)substituted alk(en/yn)yl, alkoxyalkyl, cycloalkyl, aralkyl, **heterocyclyl**, aryl, etc.; A and B, or A and D, may form (un)substituted carbo- or **heterocyclic** rings; G = various acyl, sulfonyl, or phosphoryl substituents, or metal or ammonium ions] are prepared Also disclosed are several processes for preparing the compds., and their use as pesticides and herbicides. For example, amidation of 2,4-dichloro-6-methylphenylacetic acid with H2NC(Me)(i-Pr)CN via the acid chloride using SOCl2 (81%), followed by alcoholysis of the nitrile using H2SO4 and MeOH quench (73%), and cyclization of the resultant ester with KOBu-tert in THF (73%), gave title compound II. In a test against Myzus persicae at 0.1%, II gave 100% kill in 6 days. At 250 g/ha preemergence, selected I gave 80-100% kill of 4 weeds with 0-50% damage to Beta vulgaris.

L8 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:77518 CAPLUS
DOCUMENT NUMBER: 120:77518
TITLE: Sex steroid activity inhibitors
INVENTOR(S): Labrie, Fernand; Merand, Yves
PATENT ASSIGNEE(S): Endorecherche Inc., Can.
SOURCE: PCT Int. Appl., 227 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9310741	A2	19930610	WO 1992-CA518	19921201
WO 9310741	A3	19940203		
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, PT, RO, RU, SD				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
US 5395842	A	19950307	US 1991-801704	19911202
AU 9229393	A1	19930628	AU 1992-29393	19921201
AU 681338	B2	19970828		
EP 615448	A1	19940921	EP 1992-923641	19921201
EP 615448	B1	20020502		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
RU 2142945	C1	19991220	RU 1994-31127	19921201
AT 216880	E	20020515	AT 1992-923641	19921201
NO 9402027	A	19940704	NO 1994-2027	19940601
FI 9402568	A	19940727	FI 1994-2568	19940601
AU 760232	B2	20030508	AU 2000-20637	20000303
AU 762751	B2	20030703	AU 2000-34056	20000512
AU 2000034056	A5	20000720		

PRIORITY APPLN. INFO.:

US 1991-801704	A	19911202
US 1988-265150	B2	19881031
US 1989-377010	B2	19890707
WO 1992-CA518	A	19921201
AU 1996-46606	A3	19960220
AU 1997-46772	A3	19971128

OTHER SOURCE(S): MARPAT 120:77518
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Various steroidal and nonsteroidal (diphenylethylene-based) antiestrogens were prepared and/or tested. Pharmaceutical compns. containing various groups and representatives of nonsteroidal compds. are claimed. Included in the disclosure are compds. I [x = 0-6; L and/or G is a polar moiety separated from the B ring by ≥3 intervening atoms; R1, R2 = bond, alkylene, alkenylene, alkynylene, C6H4, or fluoro analogs of these; B = bond, O, S, Se, SO, SO2, NH, CH(OH), NHCO, OCO, CO2, C6H4, etc.; LG may form N-containing **heterocyclic** ring; or L = various bivalent groups, mostly CO- or C(S)-based; or G = H, alkenyl, alkynyl, (un)substituted alkyl; Z = alkylene, haloalkylene, (CH2)nO, (CH2)nS, (CH2)nCO, etc.; n = 0-3; R3, R10 = H, OH, halo, alkyl, alkoxy, etc.; R6 = H, alkyl, alkenyl, alkynyl]. For example, compound II was prepared and was 3-fold more active against ZR-75-1 breast cancer cells than its known analog lacking the B-ring Me group. Estradiol derivative III was also prepared and found to act as an antiestrogen and an inhibitor of 17β-hydroxy steroid dehydrogenase.

L8 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:118849 CAPLUS
DOCUMENT NUMBER: 112:118849
TITLE: Preparation of 2-**heterocyclylpyrrole**-3,4-dicarboxylates as herbicides
INVENTOR(S): Patel, Kanu Maganbhai; Powell, James Edward
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Brit. UK Pat. Appl., 63 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2214180	A1	19890831	GB 1988-591	19880112

PRIORITY APPLN. INFO.:

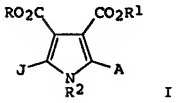
GB 1988-591		19880112

OTHER SOURCE(S): MARPAT 112:118849
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R, R1 = C1-4 (halo)alkyl, alkenyl, alkynyl; R2 = C1-3 alkyl; R3 = H, HOCH2, COR4, CH2O2CR4, SCO2R5; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl(alkyl), aryl(oxy), (un)substituted heteroarylalkyl, etc.; R4 = alkyl, Ph; J = 5- or 6-membered (un)substituted, optionally benzo-fused heterocycle] were prepared as herbicides, e.g., by cyclocondensation reaction of an alanine amide JCONHCHMeCO2H (II) with an acetylene dicarboxylate in the presence of Ac2O. Thus, isoxazolyl carboxylate QCO2Me was saponified with aqueous NaOH and acidified, the resulting acid was coupled with H-Ala(OEt).HCl in the presence of 1,1'-carbonyldiimidazole in dry THF to give the amide II (J = Q), which was heated 1 h at 130° with MeO2C.tplbond.CO2Me and Ac2O to give I (R = R1 = R2 = Me, R3 = H, J unchanged). The latter at 1.0 lb/acre severely damaged morningglory in a preemergence application. Approx. 41 I were prepared and the herbicidal activity of 39 I was evaluated in pre- and postemergence applications against 16 plant species.

L8 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:76939 CAPLUS
DOCUMENT NUMBER: 112:76939
TITLE: Preparation of phytotoxic 2-alkyl-5-(heterocyclic)pyrrole-3,4-dicarboxylates
INVENTOR(S): Patel, Kanu M.; Powell, James E.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 17 pp. Cont.-in-part of U.S. Ser. No. 904,323, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4853027	A	19890801	US 1987-3233	19870114
PRIORITY APPLN. INFO.:			US 1986-904323 A2	19860908

OTHER SOURCE(S): CASREACT 112:76939; MARPAT 112:76939
GI



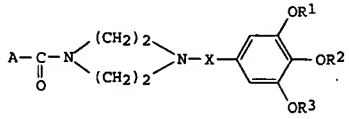
I

AB The title compds. [I; R, R1 = C1-4 (halo)alkyl, alkenyl, alkynyl; R2 = H, HOCH2, B(C2-6 alkyl)2, R17(O)C, R18CO2CH2, R19O2CS; R17, R18 = C1-4 alkyl, C5-6 cycloalkyl, (un)substituted Ph, pyridinyl; R19 = C4 alkyl, Ph; A = C1-3 alkyl; J = (un)substituted pyridinyl, etc.) were prepared CNCH2CO2Me, DBU and anhydr. THF were cooled to 0° followed by addition of Ac2O to give the 5-methyl-4-oxazolecarboxylate which was treated with MeOAc and NaH to give the oxopropionate derivative, which reacted with Al2O3-supported NaOMe and MeCOCHClCO2Me to give a residue which was mixed with AcONH4, MeOH and AcOH, and refluxed for 3 h to give I (R, R1, A = Me; R2 = H; J = 5-methyl-4-oxazolyl) (II). In preemergence (soil) herbicidal activity, II at 1 lb/acre controlled such weeds as Bromus tectorum, Sorghum halepense, Sesbania exaltata, Abutilon theophrasti, etc.

L8 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:625318 CAPLUS
DOCUMENT NUMBER: 111:225318
TITLE: Preparation of 1,4-disubstituted piperazines and their use as antagonists of platelet-activating factor
INVENTOR(S): Sugihara, Hirosada; Itoh, Katsumi; Nishikawa, Kohei
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 318235	A2	19890531	EP 1988-311022	19881122
EP 318235	A3	19910502		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 01230570	A2	19890914	JP 1988-295244	19881122
US 4937246	A	19900626	US 1988-274975	19881122
PRIORITY APPLN. INFO.:			JP 1987-296887 A	19871125

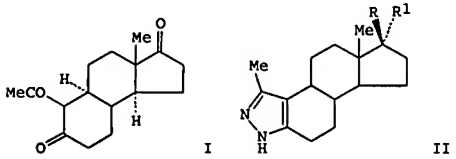
GI



I

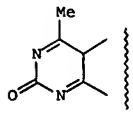
AB The title compds. I [A = (un)substituted Ph, (un)substituted heterocyclyl; X = CH2, C(:O), C(:S); R1, R2, R3 = lower alkyl] or their salts, a means of their preparation, and compns. containing them are provided for inhibition of platelet-activating factor (PAF). 1-(3-Methoxy-5-nitro-4-propoxybenzoyl)-4-(3,4,5-trimethoxybenzyl)piperazine-HCl (II) was prepared from 1-(3,4,5-trimethoxybenzyl)piperazine dihydrochloride and 3-methoxy-5-nitro-4-propoxy-benzoyl chloride (preparation given). II (3 + 10-5M) completely inhibited PAF-induced aggregation of rabbit platelets; 30 mg II/kg inhibited PAF-induced hypotension in rats.

L8 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:22874 CAPLUS
DOCUMENT NUMBER: 100:22874
TITLE: Total synthesis of heterocyclic steroids
AUTHOR(S): Ding, Yu; Nassim, Bahman; Crabbe, Pierre
CORPORATE SOURCE: Dep. Chem., Univ. Missouri, Columbia, MO, 65211, USA
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1983), (10), 2353-7
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

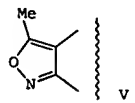


I

II



IV



V

AB Dinorsecoestranetrione I was prepared in 7 steps from (MeCO)2CH2 and (+)-7a-methylperhydro-4-phenylsulfonylmethylindan-1,5-dione. Cyclocondensation reactions of I with N2H4, (H2N)2CO, and HONH2.HCl gave heterocyclic steroid analogs II (RR1 = O) (III), IV (RR1 = O), and V (RR1 = O (VI). Addition reactions of III and VI with C2H2 gave II and V (R = OH, R1 = C.tplbond.CH), resp.

L8 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:107278 CAPLUS
DOCUMENT NUMBER: 98:107278
TITLE: Hypoglycemic 5-substituted oxazolidine-2,4-diones
INVENTOR(S): Schnur, Rodney C.
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 222,202.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4342771	A	19820803	US 1981-252962	19810423
US 4367234	A	19830104	US 1981-222202	19810102
GB 2080803	A	19820210	GB 1981-22524	19810722
GB 2080803	B2	19840118		
HU 30682	O	19840328	HU 1981-2143	19810722
HU 189701	B	19860728		
SU 1194275	A3	19851123	SU 1981-3310552	19810722
PL 133220	B1	19850531	PL 1981-232330	19810723
CS 237320	B2	19850716	CS 1981-5646	19810723
PL 138116	B1	19860830	PL 1981-241198	19810723
PL 138706	B1	19861031	PL 1981-237568	19810723
PL 138853	B1	19861129	PL 1981-237569	19810723
PL 139154	B1	19861231	PL 1981-237570	19810723
SE 8104543	A	19820129	SE 1981-4543	19810724
SE 461039	B	19891218		
SE 461039	C	19900412		
DE 3129275	A1	19820422	DE 1981-3129275	19810724
DE 3129275	C2	19871015		
AT 8103288	A	19840615	AT 1981-3288	19810724
AT 376974	B	19850125		
BE 889758	A1	19820127	BE 1981-205506	19810727
FI 8102339	A	19820129	FI 1981-2339	19810727
FI 75820	B	19880429		
FI 75820	C	19880808		
FR 2487350	A1	19820129	FR 1981-14542	19810727
FR 2487350	B1	19860404		
NO 8102559	A	19820129	NO 1981-2559	19810727
NL 8103538	A	19820216	NL 1981-3538	19810727
DK 8103347	A	19820225	DK 1981-3347	19810727
DK 152650	B	19880405		
DK 152650	C	19880829		
ES 504321	A1	19830101	ES 1981-504321	19810727
DD 202555	A5	19830921	DD 1981-232129	19810727
CA 1161843	A1	19840207	CA 1981-382568	19810727
IL 63424	A1	19850929	IL 1981-63424	19810727
CH 653029	A	19851213	CH 1981-4878	19810727
JP 63035632	B4	19880715	JP 1981-117572	19810727
US 4431810	A	19840214	US 1982-380176	19820520
ES 514316	A1	19830416	ES 1982-514316	19820723
ES 514314	A1	19830501	ES 1982-514314	19820723
ES 514315	A1	19830501	ES 1982-514315	19820723
SU 1151207	A3	19850415	SU 1982-3482651	19820806
SU 1264841	A3	19861015	SU 1982-3482652	19820806
SU 1227114	A3	19860423	SU 1982-3484886	19820901
AU 555134	B2	19860911	AU 1982-90353	19821110
AU 8290353	A1	19830324		
GB 2128184	A1	19840426	GB 1983-17147	19830624
GB 2128184	B2	19840815		
GB 2131422	A1	19840620	GB 1983-17146	19830624
GB 2131422	B2	19841205		
GB 2134104	A1	19840808	GB 1983-17142	19830624
GB 2134104	B2	19850206		
GB 2134105	A1	19840808	GB 1983-17143	19830624
GB 2134105	B2	19850116		
CS 237346	B2	19850716	CS 1983-8032	19831031
CS 237347	B2	19850716	CS 1983-8033	19831031
CS 237348	B2	19850716	CS 1983-8034	19831031
US 4565820	A	19860121	US 1984-574236	19840126
AT 8400538	A	19840615	AT 1984-538	19840217
AT 376975	B	19850125		
AT 8400539	A	19840615	AT 1984-539	19840217
AT 376976	B	19850125		
AT 8400540	A	19840615	AT 1984-540	19840217
AT 376977	B	19850125		
US 4689336	A	19870825	US 1985-783982	19851003
US 4753956	A	19880628	US 1987-55498	19870528
US 4812471	A	19890314	US 1988-153622	19880208

PRIORITY APPLN. INFO.:

US 1980-173206	A2	19800728
US 1981-222202	A2	19810102
US 1981-252961	A	19810423
US 1981-252962	A	19810423
IN 1981-DE365		19810609
GB 1981-22524	A3	19810722
CS 1981-3646	A3	19810723
CS 1981-5646	A3	19810723
AT 1981-3288	A	19810724
US 1982-380176	A3	19820520
US 1984-574236	A3	19840126
US 1985-783982	A3	19851003
US 1987-55498	A3	19870528

OTHER SOURCE(S): CASREACT 98:107278
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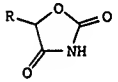

I

AB Hypoglycemic 5-substituted 2,4-oxazolidinediones [I, R = (substituted) 8-chromanyl, 2-pyrrolyl, 3-indolyl, 3-pyridyl, etc.] were prepared by several known procedures. Thus, treatment of alloxan hydrate with 1-phenylpyrrole in refluxing EtOH-HCl gave 5-hydroxy-5-(1-phenyl-2-pyrrolyl)-2,4,6(1H,3H,5H)-pyrimidinetrione which, upon heating in N NaOH, gave I (R = 1-phenyl-2-pyrrolyl), which produced 32% lowering of blood glucose level in rats in 1 h at 100 mg/kg.

L8 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:423775 CAPLUS
DOCUMENT NUMBER: 97:23775
TITLE: 5-Substituted oxazolidine-2,4-diones having hypoglycemic activity
INVENTOR(S): Schnur, Rodney Caughren
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: Fr. Demande, 130 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2487350	A1	19820129	FR 1981-14542	19810727
FR 2487350	B1	19860404		
US 4367234	A	19830104	US 1981-222202	19810102
US 4332952	A	19820601	US 1981-252961	19810423
US 4342771	A	19820803	US 1981-252962	19810423
AU 555134	B2	19860911	AU 1982-90353	19821110
AU 8290353	A1	19830324		

PRIORITY APPLN. INFO.:
US 1980-173206 A 19800728
US 1981-222202 A 19810102
US 1981-252961 A 19810423
US 1981-252962 A 19810423
IN 1981-DE365 19810609

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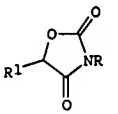


I

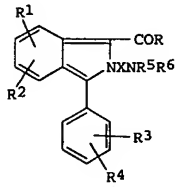
AB Oxazolidinediones I (R = H, acyl, alkoxycarbanyl, carbamoyl; R1 = **heterocyclic**) were prepared Thus, treating 8-bromo-6-chloroquinoline with di-Et oxalate gave Et 6-chloro-8-quinolylglyoxylate which was reduced with NaBH4 to give Et 2-(6-chloro-8-quinolyl)-2-hydroxyacetate (II). Amidating II with NH4OH and cyclizing with KOCMe3 gave I (R = H, R1 = 6-chloro-8-quinolyl) which at 10 mg/kg in the glucose tolerance test in rats gave a 16% decrease in blood sugar level.

L8 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:420321 CAPLUS
DOCUMENT NUMBER: 91:20321
TITLE: Isoindole derivatives
INVENTOR(S): Jaunin, Roland
PATENT ASSIGNEE(S): Hoffmann-La Roche, F., und Co. A.-G., Switz.
SOURCE: Patentschrift (Switz.), 6 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 610304	A	19790412	CH 1977-14704	19741128
CH 605749	A	19781013	CH 1974-15795	19741128
US 4090027	A	19780516	US 1976-718658	19760825

PRIORITY APPLN. INFO.:
CH 1974-15795 A 19741128
US 1975-633514 A3 19751120

GI



I

AB Aminoalkylisoindolines I (COR = ester, amide; R1-R4 = H, alkyl, alkoxy, halo, CF3; R5,R6 = alkyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, aryl, aralkyl; NR5R6 **heterocycle**; X = C2-10 alkylene) were prepared Thus 7-chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one was treated with NaH and (EtO)2CO to give Et 5-chloro-3-phenyl-1-isoindolecarboxylate, which was treated with NaH and ClCH2CH2NEt2.HCl to give I (R = OEt, R1-R4 = H, R5 = R6 = Et, II). II had an appetite depressant ED65 of 42 mg/kg orally in rats.

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	136.80	142.25
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-26.28	-26.28

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